Date: Mon, 3 Oct 94 04:30:32 PDT

From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>

Errors-To: Ham-Space-Errors@UCSD.Edu

Reply-To: Ham-Space@UCSD.Edu

Precedence: List

Subject: Ham-Space Digest V94 #277

To: Ham-Space

Ham-Space Digest Mon, 3 Oct 94 Volume 94 : Issue 277

Today's Topics:

2-line keps Amateur Static Satellite Tracking ANS-274 BULLETINS Balloon Launch GPS Info? sat. help Shuttle frequencies STS-68 Orbital State Vector Rev #38

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>

Send subscription requests to: <Ham-Space-REOUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 1 Oct 1994 23:14:33 +0200

From: briane@goofy.iaccess.za (Brian Ellse)

Subject: 2-line keps

In article <199409271330.JAA00840@mtu.edu>, dmgillah@mtu.EDU (David Gillahan) wrote:

- > Howdy! I was wondering if anyone knows where I might anonymous FTP to for
- > up-to-date 2-line keps data. Right now my local PBBS is down, and I had
- > a hunch that maybe they're available on the internet...

> 73s

> ******************************

> * Talk to ya, Dave

Until you've jumped *

> *

Best spot I've found so far is :

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FTP to archive.afit.af.mil:/pub/space/....(anonymous login etc)
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The files in here are updated daily by Dr Thomas Kelso at about 21h00-23h00. I am not sure if this is EST or UTC time, maybe someone can tell me!!

There are about 12 files in this directory (/pub/space) with the extn of .tle The most popular I should think are amateur.tle, weather.tle, sts.tle and mir.tle.

Hope this is useful.

Cheerio,

Brian ZR5DTS Voice: ++27-31-7011201 (06:00-14:30 UTC)

Internet: briane@goofy.iaccess.za Fax: ++27-31-7090813

Date: 2 Oct 1994 23:05:58 GMT

From: Griffin@ridgefield.sdr.slb.com (Douglas Griffin)

Subject: Amateur Static Satellite Tracking

In article <36dr7pINNn48@diable.upc.es>, caralt@gaig.upc.es (Jordi Caralt
Barba) wrote:

blank

Jordi: You have 6 postings here on Sept 29th but you forgot to include any text!

Date: Sun, 2 Oct 1994 11:53:01 MST

From: Dave Cowdin <cowdin@pogo.den.mmc.com>

Subject: ANS-274 BULLETINS

SB SAT @ AMSAT \$ANS-274.01
IARU APPOINTS SATELLITE ADVISOR

HR AMSAT NEWS SERVICE BULLETIN 274.01 FROM AMSAT HQ SILVER SPRING, MD OCTOBER 1, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-274.01

IARU Appoints Satellite Adviser

In a news release dated 26-SEP-94, the International Amateur Radio Union (IARU) announced that it has appointed Hans van de Groenendaal (ZS5AKV) to the newly created post of IARU Satellite Adviser. According to the IARU release, the principle task of this position will be to keep the IARU Administrative Council informed on all technical and operational aspects of the Amateur Radio Satellite Service in order to enable the Council to adopt appropriate policies to advance the interest of the Amateur Satellite Service before the International Telecommunication Union (ITU) and regional telecommunications agencies.

The IARU release noted that ZS5AKV, as past President of Southern African AMSAT and an Executive Committee member of IARU Region 1, brings many years of satellite related experience to this appointment. The IARU release further noted that the appointment is a direct result of recommendations made to the IARU Administrative Council by the IARU Ad Hoc Satellite Advisory Committee which took up the interim report at the recently completed IARU Administrative Committee meeting in Singapore. The IARU release commented that this action is "tangible proof" of IARU's interest and involvement in the Amateur Satellite Service.

The release continued by citing IARU's many year role in protecting the Amateur Satellite Service, in particular its work during the 1979 World Administrative Radio Conference which led to most of the present Amateur Satellite Service frequency allocations.

The IARU release also stated that the "exponential development of new technologies and ever increasing complexity of the Regulatory Agencies, the IARU Administrative Council deemed it necessary to involve itself closer with the Amateur Satellite Service in order to represent it effectively on a coordinated world-wide basis while cementing its relationship with the AMSAT and other Amateur Radio Satellite groups."

In the release the IARU said that in his new capacity and by the powers delegated to him by the IARU, ZS5AKV will have the task of appointing someone to the post of IARU Satellite Frequency Coordinator.

The IARU said that ZS5AKV is now soliciting nominations for volunteers willing to serve the function of IARU Satellite Frequency Coordinator.

Such nominations should be sent to him by FAX at +27-31-765-6456 or via INTERNET at amsat@uctvax.uct.ac.za before 31-0CT-94. Hans said that each nomination should include a comprehensive summary of the nominee's background and qualifications. He stated that it is his intention to discuss the various nominations with major AMSAT groups in order to seek their recommendations. He underscored the importance of finding the right person to be appointed to this very important job.

/EX

SB SAT @ AMSAT \$ANS-274.02 WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 274.02 FROM AMSAT HQ SILVER SPRING, MD OCTOBER 1, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-274.02

Weekly OSCAR Status Reports: 01-0CT-94

AO-13: Current Transponder Operating Schedule:

N QST *** A0-13 TRANSPONDER SCHEDULE *** 1994 Sep 12 - Dec 19 Mode-B : MA 30 to MA 150 \mid <- OFF Oct 22 - Nov 07 for eclipses

Mode-B : MA 150 to MA 190 | max duration 2h 12m

Mode-BS: MA 190 to MA 218 |

Mode-S $\,:\,$ MA 218 to MA 220 \mid <- S beacon only

Mode-S $\,:\,$ MA 220 to MA 230 \mid <- S transponder; B trsp. is OFF

Mode-B : MA 230 to MA 30 | Blon/Blat 230/0

Omnis : MA 250 to MA 140 | Move to attitude 180/0, Dec 19

The battery charge state is of paramount importance during the eclipse seasons. As always the command team may have to have to make temporary changes to the published schedule. In that case we will try to minimize the inconvenience, setting Mode-B OFF from MA 230-256 in the first instance.

[G3RUH/DB2OS/VK5AGR]

FO-20: FO-20 has been switched back into the analog mode as of 14:30 UTC 28-SEP-94. The command station announced that "mailbox software ran away" and there is a malfunction known as UVC (Under Voltage Control) has been confirmed by command station. FO-20 will be staying in its analog mode until 10-OCT-94. [JJ1WTK]

MIR: German Astronaut Dr. Ulf Merbold will be QRV aboard the space station MIR signing DP3MIR during the ESA EUROMIR 94 mission starting 03-OCT-1994. In order to give actual information regarding the mission to as many radio amateurs and SWLs as possible, he will use the digital voice memory of MIR's HAM RADIO rig designed and built by Thomas Kieselbach (DL2MDE). Thomas made an arrangement with Ulf Merbold, DP3MIR, to load actual spoken reports into

the digital memory frequently, as time permits however, probably every 2-3 days. The reports in English and German will then be retransmitted automatically during the consecutive orbits at 145.550 Mhz (FM) in regular time intervals. Ulf Merbold will stay aboard MIR for 30 days. [DF5DP]

RS-10: WA6ARA reports that RS-10 is operating well with a good mix of SSB and CW. Orbit times are great for late evenings to the East and with early evening passes to the West. [WA6ARA]

RS-12: WA6ARA reports that Mode-K is alive and very well. RS-12 is just starting to appear in late evenings. Over the next month the passes will be great for evening passes. [WA6ARA]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WDOHHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WDOHHU @ NOQCU. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

Date: 2 Oct 1994 13:42:25 GMT

From: biekert@phoenix.phoenix.net (Robert Biekert)

Subject: Balloon Launch

Near Outer Space Transportation System (NOSTS-1)
Balloon Launch - Clear Lake Amateur Radio Club
Sunday - October 9, 1994

Near Outer Space Transportation System utilizing a 12 foot diameter helium balloon as the launch vehicle. NOSTS-1 is an amateur radio experiment which will carry a various payloads in a package weighing less than 6 pounds. All interested hams are invited to participate.

The payload consists of:

- * 2 meter packet on 145.75 MHz simplex the node name for digipeating is NOSTS-1, the mailbox callsign is KJ5MX-6, the beacon IDs as KJ5MX-3.
- * 10 meter voice beacon on 28.322 MHz Double Side-Band with an ID interval of 33 seconds

- * Beacon on 29.420 MHz sending "CW" beeps that correspond directly to the outside temperature. At 70 degrees Fahrenheit the beep rate is approximately 200/min. To calculate temperature from beep rate the formula: Temp(degrees F) = [0.56853 X (Beep rate)] - 38 The antenna for this device is a 2 meter dipole cut to enhance the 5th harmonic at 147.10 MHz for direction finding purposes.
- * Beacon on 224.72 MHz for direction finding purposes only.
- * Potential secondary payloads may include a 10 GHz gigaplexer beacon and a 2 meter uplink (147.435 MHz), 70 cm downlink (440.95 MHz) FM repeater. Final announcements on these payloads will be made on launch day.

The Clear Lake Amateur Radio Club Balloon Launch Team wishes to thank Andy MacAllister, WA5ZIB and members of the South Texas Balloon Launch Team for assistance, advice, and use of 220 MHz beacon, 29.420 MHz fireball transmitter for this launch.

An informal simultaneous HF (7.155 Mhz or up for QRM) and UHF (442.750 SE Houston | 444.275 MHz NW Houston repeaters) net will be held at 7PM on Saturday October 8th for final updates. The 40 meter net on the same frequency will be active immediately before and during the flight.

The lauch site will be west of the Houston area and the direction of flight will be from west to east. Coverage may extend several states on some modes. Reception reports including frequency, time, and YOUR location are encouraged.

For additional information and reception reports contact:

Dan Feeback, KJ5MX - (713) 286-0230 [Home] - (713) 483-7189 [Work]

Internet: feeback@medics.jsc.nasa.gov Packet: KJ5MX@KA5KTH.#SETX.TX.USA.NOAM

or

John Maca, AB5SS - (713) 488-2025 [Home] - (713) 244-7774 [Work]

> Internet: jmaca%jscdk@jesnic.jsc.nasa.gov Packet: AB5SS@KA5KTH.#SETX.TX.USA.NOAM

Robert E. Biekert KA5GLX Houston, Texas

Email: biekert@phoenix.phoenix.net

Date: Sun, 2 Oct 1994 13:43:24 GMT

From: genef@netcom.com (Gene Fornario)

Subject: GPS Info?

Hi! Just curious...where can I get info on GPS? I'm wondering what kind of GPS receiver I should get.

TTA

Gene--

- -

genef@netcom.com

Date: Sun, 2 Oct 94 17:36:02 -0500

From: Andrew Naylor <anaylor@delphi.com>

Subject: sat. help

What are the sats that I can work with just standard AX.25 1200 baud packet? I have 2 meter and 440 to work with. I have worked through CW and voice on some sats, but what are the requirements for running

the pacsats? Thanks in advance NOUJT

Date: 2 Oct 1994 16:05:08 -0500

From: william@cortex.ama.ttuhsc.edu (William Biggs)

Subject: Shuttle frequencies

Although I don't think we have the equipment to recieve shuttle conversations with hams, we'd like to try.

What frequencies do the shuttle missions use for talking to hams ?

Do they use any modes other than FM and packet ? Do they use an offset between transmit/recieve or is it strictly simplex ?

Also, the last Keplerian data I had for the shuttle was from PRE-launch. Does anybody have newer data or know where I can find it?

Thanks, Reddy KC5JIF

Date: Mon, 3 Oct 1994 03:52:20 GMT From: astroman@netcom.com (SignalMan)

Subject: STS-68 Orbital State Vector Rev #38

Vector format = 117

Satellite Name: STS-68

Catalog Number: 23285 94062A 94275.79509405093 Epoch Date/Time:

10/02/1994 19:04:56.126 UTC

EFG E: 10631138.23 ft F: 5512595.32 ft G: -18023940.28 ft Edot: -14456.0829 ft/s Fdot: 19791.2534 ft/s -2467.7027 ft/s Gdot:

ndot/2 (drag): 0.00142009791 rev/day^2 nddt/6: 8.29567E-08 rev/day^3 Bstar: 6.84552E-05 1/Earth Radii

Elset #: 6

Rev @ Epoch: 38.73161606215

MSDOS/PC software is available for conversion of OSV to 2 Line Keplerian Elements via ftp to: oak.oakland.edu:/pub/msdos/hamradio/v219331.zip and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

End of Ham-Space Digest V94 #277 ********